INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/33037

A. CLASSIFICATION OF SUBJECT MATTER IPC(7): C07K 1/00, 2/00; A61K 38/00; 39/02, 39/38; G01N 33/53 US CL: 530/350, 300, 825; 514/2; 424/234.1, 264.1, 190.1, 184.1; 435/7.1 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 530/350, 300, 825; 514/2; 424/234.1, 264.1, 190.1, 184.1; 435/7.1					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
C. DOCT	JMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ap		Relevant to claim No.		
х х - ү	WO 02/079242 A2 (CHORON SPA) 10 October 200 Listing; claims; pages 3, 4, 35 and 36; and claims 23-HIMMELREICH R. et al. Complete sequence analys: pneumoniae. Nucleic Acids Res. 15 November 1996, entire document.	-25. is of the genome of the Mycoplasma	1, 2, 9, 10, 16, 17, 22, 23, 28, 29 and 38-41 1 and 38-41 		
Further	documents are listed in the continuation of Box C.	See patent family annex.			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		date and not in conflict with the applic principle or theory underlying the inventor of particular relevance; the considered novel or cannot be considered to the document is taken alone "Y" document of particular relevance; the considered to involve an inventive step with one or more other such document obvious to a person skilled in the art	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being		
Date of the a	ctual completion of the international search	Date of mailing of the international sear	ch report		
26 April 2005 (26.04.2005) 11 OCT 2005					
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer S. Devi, Ph.D. Telephone No. (571)272.1600	hence, For		

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely.		
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3.	Claims Nos.: 21 and 42-45 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
This Internati Please See Co	onal Searching Authority found multiple inventions in this international application, as follows: ontinuation Sheet		
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4. Remark on P	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1,2,9,10,16,17,22,23,28,29 and 38-41 The additional search fees were accompanied by the applicant's protest.		

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

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	BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKI This application contains the following inventions or groups of inventions which ar		
١	concept under PCT Rule 13.1. In order for all inventions to be examined, the approximations to be examined.	opriate additional examination fees must be paid.	
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	Group I, claim(s) 1, 2, 9, 10, 16, 17, 22, 23, 28, 29 and 38-41, drawn to an isolated SEQ ID NO: 2, 3, 4, 5 or 6, or a biologically active fragment thereof.	polypeptide comprising an amino acid sequence of	
	Group II, claims 3-5, 8, 11-13, 20, 24, 25 and 30, drawn to an isolated nucleic acid	encoding a polypeptide comprising an amino acid	
	sequence of SEO ID NO: 2, 3, 4, 5 or 6, or a biologically active fragment thereof.		
	Group III, claims 6, 7, 14, 15, 18, 19, 26, 27, 31 and 32, drawn to an antibody spec sequence of SEQ ID NO: 2, 3, 4, 5 or 6, or a biologically active fragment thereof.	ilic to a polypeptide comprising an amino acid	
	Group IV, claims 33-37, drawn to a method of identifying a substance that inhibits	an activity of the CARDS toxin.	
	Claims 21 and 42-45 are unsearchable because of their improper i	multiple dependency.	
	The inventions listed as Groups I-IV do not relate to a single general inventive con	cent under PCT Rule 13.1 because, under PCT Rule	
	13.2, they lack the same or corresponding special technical features for the following	ng reasons:	
	Inventions I-IV lack unity. The special technical feature of the first claim		
	amino acid sequence of SEQ ID NO: 2, 3, 4, 5 or 6, or a biologically active fragme thereof is already disclosed in the art at the time of the invention. For example, W		
	polypeptide comprising the amino acid sequence of SEQ ID N: 4, AAE29374, and/	or a biologically active fragment thereof (see pages 2-4	
	under Sequence Listing). Thus, the special technical feature of the first claimed m define over the prior art. The special technical feature of inventions II, III and IV	nethod is taught by the prior art, and therefore does not	
	do not share a significant common structure with each other and with the product of		

Continuation of B. FIELDS SEARCHED Item 3:
WEST, DIALOG, EMBASE, BIOSIS, MEDLINE, Sequence databases
SEQ ID NO: 2-6, 69-71 and 75 and inventors names
Form PCT/ISA/210 (extra sheet) (January 2004)